

EXPRESS MAIL NO.: E 4869631US  
PATENTS



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CHRIS LAMBRIODES, hereby CERTIFY THAT THIS CORRESPONDENCE  
IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS EXPRESS MAIL  
NO. EV 154869631US IN AN ENVELOPE ADDRESSED TO: THE ASSISTANT  
COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231

ON \_\_\_\_\_

Chris Lambriodes

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**POWER OF ATTORNEY**

I hereby revoke all powers of attorney previously granted, and appoint the following persons as new attorneys, with full power of revocation and substitution, to act in his behalf in all matters affecting the applications identified in Attachment A hereto.

Attorney Name(s):	Arthur L. Plevy	Registration No. 24,277
	L. Lawton Rogers, III	Registration No. 24,302
	Lewis F. Gould, Jr.	Registration No. 25,057
	William H. Murray	Registration No. 27,218
	Stephan P. Gribok	Registration No. 29,643
	Peter J. Cronk	Registration No. 32,021
	Richard Redano	Registration No. 32,292
	Robert E. Rosenthal	Registration No. 33,450
	Richard A. Paikoff	Registration No. 34,892
	Samuel W. Apicelli	Registration No. 36,427
	Steven E. Koffs	Registration No. 37,163
	Paul A. Schwarz	Registration No. 37,577
	Darius C. Gambino	Registration No. 41,472
	Carl A. Giordano	Registration No. 41,780
	D. Joseph English	Registration No. 42,514
	Edward J. Howard	Registration No. 42,670
	Gary Maze	Registration No. 42,851
	Patrick D. McPherson	Registration No. 46,255
	Gary D. Colby	Registration No. 40,961
	Mark C. Comtois	Registration No. 46,285

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• EXPRESS MAIL NO.: EW 4869631US  
PATENTS

Melanie Goddard	Registration No. 46,732
Joseph A. Powers	Registration No. 47,006
Patrick C. Muldoon	Registration No. 47,343

of the law firm DUANE MORRIS LLP, One Liberty Place, Philadelphia, PA 19103-7396.

Address all written correspondence to:

**Customer No. 08933**  
William H. Murray  
DUANE MORRIS LLP  
One Liberty Place  
Philadelphia, PA 19103-7396

and address all telephone calls to: William H. Murray at (215) 979-1264

I am the:

( ) Applicant  
( ) Assignee of record of the entire interest  
*Certificate under 37 CFR 3.73(b) is enclosed*

TriQuint Technology Holding Co.  
2300 NE Brookwood Parkway  
Hillsboro, OR 97124

Dated: 2/13/03

By: Raymond A. Link  
Raymond A. Link  
Vice President and  
Chief Financial Officer

ATTACHMENT A

Application Number	Filing Date	First Named Inventor	Title	Group Art Unit	Examiner's Name
09/495988	02/01/2000	Bachter 1	Semiconductor Laser Including N-Doped Quaternary Layer	2828	Quyen Phan Leung
09/535416	03/24/2000	Bergmann 76-6	Optical Waveguide Based Power And Wavelength Monitor	2877	Not Known Yet
60/200757	05/01/2000	Bergmann 78-2-15-1	High Reliability, Fixed Attenuator	Not Relevant	Not Relevant
09/779065	02/08/2001	Bergmann 78-2-15-1	High Reliability, Fixed Attenuator	2877	Kaveh C. Kianini
10/272821	10/16/2002	Chen 1-1-1	Multilayer Mirror	2872	Not Known Yet
60/190833	03/21/2000	Dautartas 71-16	Resonance Elimination In High Speed Package	Not Relevant	Not Relevant
09/679325	10/04/2000	Dautartas 71-16	Resonance Elimination In High Speed Packages	2817	Joseph Chang
60/190808	03/21/2000	Dautartas 72-17	Microwave Resonance Suppression In High Speed Optical Packages	Not Relevant	Not Relevant
09/650602	08/30/2000	Dautartas 72-17	Microwave Resonance Suppression In High Speed Optical Packages	2817	Joseph Chang
09/739199	12/18/2000	Gillmore 1-1-10-1	High Precision Laser Bar Test Fixture	2877	Not Known Yet
10/267760	10/09/2002	Iannelli 3-17	Optical Time Domain Reflectometry System And Method	2633	Not Known Yet
60/432310	12/10/2002	Kamath 10-2-2	Dual Loop Automatic Power Control Of Optical Transmitters	Not Applicable	Not Applicable
09/874546	06/04/2001	Kamath 7	Active Phase Tuning Of DBR Lasers	2881	Not Known Yet
10/214532	08/08/2002	Kojima 9-4	Method And System For Generating Short Pulse Signals	2873	Not Known Yet
09/871,912	06/01/2001	Lim 1	Passively Output Flattened Optical Amplifier	3663	Andrew R. Sommer
10/017078	12/14/2001	Stayt 53	Control System For Dynamic Gain Equalization Filter	2874	Not Known Yet

EXPRESS MAIL NO.: EV 869631US



Statement Under 37 CFR 3.73(b)

Patent Owner, TRIQUINT TECHNOLOGY HOLDING CO., states that it is the assignee of the entire right, title, and interest in the patent applications identified below by virtue of a chain of title from the inventor(s) of the patent applications, to the current assignee as shown below.

09/495988  
09/535416  
60/200757  
09/779065  
10/272821  
60/190833  
09/679325  
60/190808  
09/650602  
09/739199  
10/267760  
09/874546  
10/214532  
09/871912  
10/017078

A copy of supporting documentation is attached behind each patent application. The Patent Application Assignment for all patent applications from Agere Systems Inc. to Triquint Technology Holding Co. is attached as Attachment A.

The undersigned, whose title is supplied below, is authorized to act on behalf of the Assignee.

TriQuint Technology Holding Co.  
2300 NE Brookwood Parkway  
Hillsboro, OR 97124

Dated: 2/13/07

*Raymond A. Link*  
Raymond A. Link  
Vice President and  
Chief Financial Officer



**U.S. Application Serial No.: 09/739199**

**Filed: 12/18/2000**

**A. A Chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:**

1. From Inventor(s) To: Lucent Technologies Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 011370 Frame 0346, or for which a copy thereof is attached.

2. From : Lucent Technologies Inc. To Agere Systems Optoelectronics Guardian Corp.

The document was recorded in the United States Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

3. From Agere Systems Optoelectronics Guardian Corp. To: Agere Systems Guardian Corp.

The document was recorded in the United States Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

4. From Agere Systems Guardian Corp. To: Agere Systems Inc.

The document was recorded in the United States Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

5. From Agere Systems Inc. to TRIQUINT TECHNOLOGY HOLDING CO.

The document was recorded in the United States Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

REC'D/1/17  
MAR 27 2003  
TECHNOLOGY HOLDING CO.  
RECEIVED MAR 28 2003

EXECUTION COPY

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**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.**

**Dated as of January 30, 2001**

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## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Optoelectronics Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Optoelectronics Guardian").

### RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Optoelectronics Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Optoelectronics Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Optoelectronics Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Optoelectronics Guardian Corp.).

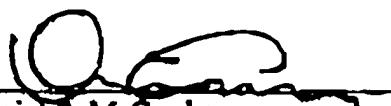
ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Orltel Corporation, Optimay Corporation, Herrmann Technology, Inc., and

Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Optoelectronics Guardian, but at Agere Systems Optoelectronics Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Optoelectronics Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Optoelectronics Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

**LUCENT TECHNOLOGIES INC.**

By: 

Daniel P. McCurdy  
President, Intellectual Property Business

**AGERE SYSTEMS OPTOELECTRONICS  
GUARDIAN CORP.**

By: 

Fred M. Romano  
President

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )  
: ss:  
COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

- this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and
- this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.

Anne Hanna

Name

Notary Public

My Commission Expires: TAMORA ANNE HANNA

[Notarial Seal]

Notary Public of New Jersey

Registered in Hunterdon County

My Commission Expires March 26, 2

STATE OF FLORIDA )  
: ss:  
COUNTY OF ORANGE )

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

- this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Optoelectronics Guardian Corp.; and
- this Patent Assignment was signed and made by Agere Systems Optoelectronics Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.

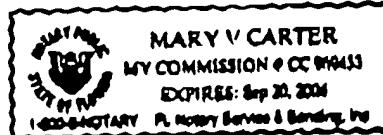
Mary V. Carter

Name

Notary Public

My Commission Expires:

[Notarial Seal]



TOTAL P. 14

**APPENDIX B (continued)**  
**Transferred Patents**

IDS No.	Inventors	Subject Matter
Focht 9-5-7	Marlin W Focht,BL0111660;Ronald E Leibenguth,BL0111660;Claude L Reynolds,BL0111660	#REF!
Freund 67-15-18	Freund, Joseph Michael ,BL0111660,Gault, William Andrew ,BL0111660,Geary, John Michael ,BL0111660,	Wire/Ribbon Bond Process To Reduce Capacitance Of Chip Bonding Pad
Geva 6-2-21	Michael Geva,55K1D1000;Jayatirtha N Holavanahalli,533230000;Abdallah Ougazzaden,BL0111660;Lawrence E Smith,BL0111660	Al-Containing Spikes In An InP-based Layer As Barrier For Blocking Zinc Diffusion In InP-based Structures
Gill 2-7	Gill, Douglas M ,BL01116A0,Jacobson, Dale Conrad ,BL0111230,	Article Comprising A LiNbO <sub>3</sub> -Based Opto-Electronic Device, And Method Of Making The Article
Gilmore 1-1-10-1	Steven S Gilmore,52S051300;John S Leiby,533240000;John S Rizzo,52S022100;Kenneth R Weidner,52S051300	High Precision Laser Bar Test Fixture
Hahn 1-2-22	Michael Hahn,533440000;Mark M Meyers,533910000;Simon J Molloy,538112000	Mirror Array And Method Of Manufacture
Hsu 1-3		Optical Fiber Having large Effective Area And Negative Dispersion For Undersea Use
Hsu 2-4	Hsu, Lucas ,533340000,Peckham, David Wayne, JT1292000,	Dispersion-Compensating Optical Fiber And System
Kurchuk 3	Kurchuk,K Boris A ,LTCP,	Optoelectronic Receiver
Laquindanu m 3-1	Laquindanum, Joyce G. ,52S051200,Par,K Miri ,533230000,	Manufacturable Method To Fabricate Sub-100 nm (Down to 10 nm) Complex Grating Structures
Liu 4	Liu, Jay Guoxu ,533650000,	Improved Hermetic Fiber To Package Bond
Meyers 3	Mark M Meyers,533910000	Receiver Optic For Use With Silicon Microbench
Miller 3-1	Miller, Thomas James ,533310000,Singh, Prashant Kumar ,533390000,	A Broadband Matching Network Design For Improving The Return Loss Of Electroabsorption Modulators
Miller 5-36	Miller, Thomas James ,533310000,Plourde, James Kevin ,BL0111660,	A Matching Circuit For High Speed EML Applications
O'Brien 10	O'Brien, Stephen ,533310000,	Temperature Insensitive High Thermal Conductivity Etalons For WDM
Onat 3	Bora M Onat,533200000	A Planar Resonant Cavity Enhanced Photodetector
Peral 1-12	Peral, Eva M ,533432000,Ury, Israel ,533432000,	Optical Filtering For Simultaneous Single Sideband Modulation And Laser Wavelength Stabilization
Stayt, 52-9	John W Stayt,BL0111660;Frank S Walters,BL0111660	A Method For Encoding Precision Location Information Of An Optical Element With Reference To The Optimal Coupling Point Of A Laser Active Stripe
White 5	Christopher A White,BL0111780	A Device For Tuning The Propagation Of Electromagnetic Energy

*State of Delaware*  
*Office of the Secretary of State* PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF  
DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT  
COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:  
"ACERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.", A DELAWARE  
CORPORATION,

WITH AND INTO "AGERE SYSTEMS GUARDIAN CORP." UNDER THE NAME  
OF "AGERE SYSTEMS GUARDIAN CORP.", A CORPORATION ORGANIZED AND  
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED  
AND FILED IN THIS OFFICE THE TWENTY-FOURTH DAY OF AUGUST, A.D.  
2001, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTY-FIRST DAY OF  
AUGUST, A.D. 2001, AT 9 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE  
NEW CASTLE COUNTY RECORDER OF DEEDS.

NEW CASTLE COUNTY RECORDER OF DEEDS.

3258123 8100M

010418909



Harriet Smith Winslow  
Harriet Smith Winslow, Secretary of State

APPLICATION: 1311648

DATE: 08-24-01

STATE OF DELAWARE  
 SECRETARY OF STATE  
 DIVISION OF CORPORATIONS  
 FILED 09:00 AM 08/26/2001  
 010418909 - 3258129

**CERTIFICATE OF MERGER**  
**OF**  
**AGERE SYSTEMS OPTOELECTRONICS GUARDIAN CORP.**  
**WITH AND INTO**  
**AGERE SYSTEMS GUARDIAN CORP.**  
**UNDER SECTION 251 OF THE GENERAL**  
**CORPORATION LAW OF THE STATE OF DELAWARE**

Pursuant to Section 251(c) of the General Corporation Law of the State of Delaware, Agere Systems Guardian Corp. hereby certifies the following information relating to the merger of Agere Systems Optoelectronics Guardian Corp. with and into Agere Systems Guardian Corp.:

1. The names and states of incorporation of each constituent corporation in the merger are:

Name	State of Incorporation
Agere Systems Optoelectronics Guardian Corp.	Delaware
Agere Systems Guardian Corp.	Delaware

2. An Agreement and Plan of Merger setting forth the terms and conditions of the merger, has been approved, adopted, certified, executed and acknowledged by each of Agere Systems Optoelectronics Guardian Corp. and Agere Systems Guardian Corp. in accordance with the provisions of Section 251(c) of the General Corporation Law of the State of Delaware.

3. The name of the surviving corporation in the merger is Agere Systems Guardian Corp.

4. The Certificate of Incorporation of Agere Systems Guardian Corp. shall be the Certificate of Incorporation of the surviving corporation.

5. The executed Agreement and Plan of Merger is on file at the principal place of business of Agere Systems Guardian Corp. at Two Oak Way, Berkeley Heights, NJ 07922.

6. A copy of the Agreement and Plan of Merger will be furnished by Agere Systems Guardian Corp. on request and without cost, to any stockholder of Agere Systems Guardian Corp. or Agere Systems Optoelectronics Guardian Corp.

7. The authorized capital stock of Agere Systems Optoelectronics Guardian Corp. is 1,000 shares of common stock, no par value per share.

8. The Merger shall be effective as of 9:00 a.m. Eastern Standard Time on August 31, 2001.

IN WITNESS WHEREOF, this Certificate of Merger has been executed on this 23rd day of August 2001.

AGERE SYSTEMS GUARDIAN CORP.

By Gerard A. deBlasi  
Gerard A. deBlasi  
Vice President

# Delaware

PAGE 1

## The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

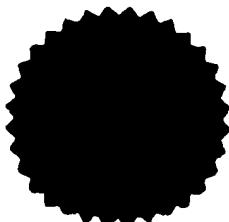
"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION, WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

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3268412 8100M



Harriet Smith Windsor  
Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 1950517

020545223

DATE: 08-29-02

**CERTIFICATE OF OWNERSHIP AND MERGER**

**OF**

**Agere Systems Guardian Corp.  
(a Delaware corporation)**

**INTO**

**Agere Systems Inc.  
(a Delaware corporation)**

**UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), **DOES HEREBY CERTIFY:**

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

**AGERE SYSTEMS INC.**

By Paul Bento  
Paul Bento, Vice President

## APPENDIX G

PATENT APPLICATION ASSIGNMENT

THIS PATENT APPLICATION ASSIGNMENT is made as of January 2, 2003 by AGERE SYSTEMS INC., a Delaware corporation having a principal place of business at 1110 American Parkway, NE, Allentown, Pennsylvania 18109, hereinafter referred to as the ASSIGNOR, and TRIQUINT TECHNOLOGY HOLDING CO., a Delaware corporation with offices at 2300 NE Brookwood Parkway, Hillsboro, OR 97124, hereinafter referred to as the ASSIGNEE.

ASSIGNOR is the owner of certain patent applications identified on Schedule "A" attached hereto (the "ASSIGNED PATENT APPLICATIONS").

ASSIGNEE desires to acquire the entire right, title and interest of ASSIGNOR in and to said ASSIGNED PATENT APPLICATIONS.

For good and valuable consideration paid by the ASSIGNEE, the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer to the ASSIGNEE, at ASSIGNEE's sole expense, ASSIGNOR's entire right, title and interest in and to the ASSIGNED PATENT APPLICATIONS, in the U.S. and every foreign country, and all patent rights, including extensions or derivations thereof, both foreign and domestic, that may issue on the ASSIGNED PATENT APPLICATIONS. ASSIGNEE hereby authorizes and requests the Commissioner of Patents that all U.S. patents that issue on the ASSIGNED PATENT APPLICATIONS shall issue to ASSIGNEE. This assignment includes assignment to ASSIGNEE of the right to make application in its own behalf for protection of the ASSIGNED PATENT APPLICATIONS and any patents issued on the ASSIGNED PATENT APPLICATIONS, in the U.S. and countries foreign to the U.S., and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications. The ASSIGNED PATENT APPLICATIONS and all patents that issue on the ASSIGNED PATENT APPLICATIONS shall be held and enjoyed by the ASSIGNEE, its successors and assigns as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

ASSIGNOR covenants and agrees to execute such further and confirmatory assignments in recordable form as the ASSIGNEE may require to vest record title of said respective ASSIGNED PATENT APPLICATIONS in ASSIGNEE.

IN WITNESS WHEREOF, the ASSIGNOR has caused this Assignment to be executed by a duly authorized officer.

AGERE SYSTEMS INC.

By: Gerard A. deBlasi  
Name: Gerard A. deBlasi  
Title: Vice President

## SCHEDULE A OF PATENT APPLICATION ASSIGNMENT

## ASSIGNED PATENT APPLICATIONS

Full Case Name	IDS	Country	Patent # / Serial #
DA Ackerman 25-24-29-44	118172	CHINA	00137088.X
DA Ackerman 25-24-29-44	118172	JAPAN	2000-396401
DA Ackerman 25-24-29-44	118172	CANADA	2327981
DA Ackerman 25-24-29-44	118172	FRANCE	311056.6
DA Ackerman 25-24-29-44	118172	GERMAN	311056.6
DA Ackerman 25-24-29-44		Y	
DA Ackerman 25-24-29-44	118172	GR BRIT	311056.6
DA Ackerman 25-24-29-44	118172	USA	09/475606
DA Ackerman 27-15-1-13-11-2	122865	USA	09/668675
DA Ackerman 27-15-1-13-11-2	122865	FRANCE	1307994.2
DA Ackerman 27-15-1-13-11-2	122865	GERMAN	1307994.2
DA Ackerman 27-15-1-13-11-2		Y	
DA Ackerman 27-15-1-13-11-2	122865	GR BRIT	1307994.2
DA Ackerman 27-15-1-13-11-2	122865	JAPAN	2001-288062
DA Ackerman 29-14-7-11	123914	USA	10/036437
DA Ackerman 30-29-6-22	123989	USA	10/036397
DA Ackerman 31-2	123884	USA	10/157452
T Ahmed 2-6-4-9-27	124063	USA	
YA Akulova 1-4-2	120821	USA	60/175010
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YA Akulova 1-4-2	120821	KOREA	102001-0000910
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YA Akulova 1-4-2	120821	TAIWAN	90100234
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YA Akulova 2-14-11-5-7-8	119681	USA	09/539882
YA Akulova 2-14-11-5-7-8	119681	CANADA	2342518
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YA Akulova 3-12-10	120821	USA	09/645913
YA Akulova 4-74-10-6-12-3	120340	USA	09/923661
YA Akulova 5-8-6-11-15	122845	USA	10/125169
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MA Alam 3-6-4-9-9-10-59	119698	GR BRIT	1302875.8
MA Alam 3-6-4-9-9-10-59	119698	USA	09/561148
MA Alam 3-6-4-9-9-10-59	119698	CHINA	1117122.7
MA Alam 3-6-4-9-9-10-59	119698	CANADA	2341107
MA Alam 3-6-4-9-9-10-59	119698	JAPAN	2001-131180
GE Andrews 3-2-9-7-2-1-5-2-1	114646	USA	09/141143
F Anigbo 4-7-1-1-9-39	123432	USA	09/781571
M Arif 1-1-1-2-6	123883	USA	10/125999
M Arif 2-2	123904	USA	60/399475
WA Asova 3-7-23-5-71-12	119699	USA	09/922891
K Azadet 20-1	124444	USA	60/387828
K Azadet 20-1	124444	USA	10/229623
✓KL Bacher 1	119667	USA	09/495988
KL Bacher 3-2-21-23	122066	JAPAN	2001-246866
KL Bacher 3-2-21-23	122066	USA	09/640289
KL Bacher 3-2-21-23	122066	FRANCE	1305347.5
	122066	GERMAN	1305347.5
KL Bacher 3-2-21-23		Y	
KL Bacher 3-2-21-23	122066	GR BRIT	1305347.5
KL Bacher 4-23	122057	JAPAN	2002-22813
KL Bacher 4-23	122057	USA	09/774799
KL Bacher 4-23	122057	FRANCE	
	122057	GERMAN	
KL Bacher 4-23		Y	
KL Bacher 4-23	122057	GR BRIT	
KL Bacher 5-24-5	123942	JAPAN	
KL Bacher 5-24-5	123942	FRANCE	
	123942	GERMAN	
KL Bacher 5-24-5		Y	
KL Bacher 5-24-5	123942	GR BRIT	
KL Bacher 5-24-5	123942	USA	10/062221
KL Bacher 6	124102	USA	10/253162
HE Bair 9-37	122284	USA	60/211744
HE Bair 9-37	122284	USA	09/814909
Z Bao 20-6-215-13-13-61	123802	USA	10/050244
RA Baron 3-32-39-3	122092	FRANCE	1306774.9
	122092	GERMAN	1306774.9
RA Baron 3-32-39-3		Y	
RA Baron 3-32-39-3	122092	GR BRIT	1306774.9
RA Baron 3-32-39-3	122092	JAPAN	2001-243969
RA Baron 3-32-39-3	122092	USA	09/636670
RA Baron 4-3-5-2	122512	USA	09/832857
AC Barron 1-1-1-1-4	124138	USA	10/253627
JA Bell 1	123240	USA	09/918037
EE Bergmann 63	114123	USA	09/311368
✓EE Bergmann 76-6	119658	USA	09/535416
EE Bergmann 78-2-15-1	122086	USA	60/200757
✓EE Bergmann 78-2-15-1	122086	USA	09/779065
EE Bergmann 79-8-2-16	121562	USA	09/747683
EE Bergmann 81-1-1-6-3	123761	USA	10/137645
EE Bergmann 82-1-18-2	122064	USA	10/273914

S Bhandarkar 21-1-61-1-7	124313	USA	10/196678
S Bhowmik 13-1	124045	JAPAN	
S Bhowmik 13-1	124045	USA	
S Bhowmik 13-1	124045	FRANCE	
	124045	GERMAN	
		Y	
S Bhowmik 13-1	124045	GR BRIT	
S Bhowmik 13-1	124212	USA	10/199586
S Bhowmik 15	124481	USA	
S Bhowmik 16	124314	USA	
GA Bogert 10-3-14-9	124244	USA	
GA Bogert 9-1-7-13-44-10-1	124137	USA	60/327415
CD Brandle 28-13-1-1	124137	JAPAN	
CD Brandle 28-13-1-1	124137	USA	10/091002
CD Brandle 28-13-1-1	118182	JAPAN	2000-381966
SL Broutin 18-20-5-38	118182	FRANCE	310956.8
SL Broutin 18-20-5-38	118182	GERMAN	310956.8
		Y	
SL Broutin 18-20-5-38	118182	GR BRIT	310956.8
SL Broutin 18-20-5-38	118182	CHINA	135560
SL Broutin 18-20-5-38	118182	CANADA	2327778
SL Broutin 18-20-5-38	118182	USA	09/461617
SL Broutin 28-32-47	120977	USA	09/703439
SL Broutin 30-49	122499	USA	09/708301
SL Broutin 31-35-50	120333	USA	09/672050
SL Broutin 33-37-76-51	122067	USA	09/931188
RB Bylsma 13-12	122508	USA	09/993425
RB Bylsma 14-1-1-8-2	123931	FRANCE	
	123931	GERMAN	
		Y	
RB Bylsma 14-1-1-8-2	123931	GR BRIT	
RB Bylsma 14-1-1-8-2	123931	JAPAN	
RB Bylsma 14-1-1-8-2	123931	USA	10/057806
RB Bylsma 15-2-2-9-3	123931	USA	10/123671
RB Bylsma 9-7-7	116434	USA	09/531264
RB Bylsma 9-7-7	116434	FRANCE	1302578.8
	116434	GERMAN	1302578.8
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RB Bylsma 9-7-7	116434	GR BRIT	1302578.8
RB Bylsma 9-7-7	116434	CANADA	2335892
RB Bylsma 9-7-7	116434	JAPAN	2001-77666
RB Bylsma 9-7-7	116434	CHINA	1111492.4
B Caras 2-14-28-5-1	114647	USA	09/312435
CD Carr 1-8-2-1	123015	USA	09/752787
CD Carr 5-6-4-4	123890	USA	10/174021
PJ Carroll 1-24-7-1-4	116943	CANADA	2343441
PJ Carroll 1-24-7-1-4	116943	JAPAN	110129/2001
PJ Carroll 1-24-7-1-4	116943	USA	09/545494
PJ Carroll 1-24-7-1-4	116943	CHINA	1117844.2
PJ Carroll 1-24-7-1-4	116943	FRANCE	1303331.1
PJ Carroll 1-24-7-1-4	116943	GERMAN	1303331.1

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PJ Carroll 1-24-7-1-4	116943	GR BRIT	1303331.1
UK Chakrabarti 23-10-7-15	116966	USA	09/545350
UK Chakrabarti 24	114667	USA	09/538690
UK Chakrabarti 25	114666	USA	09/538446
UK Chakrabarti 31-24-6-7-10	118970	USA	09/515102
UK Chakrabarti 33-4-1-2-5	122998	FRANCE	1306727.7
	122998	GERMAN	1306727.7
UK Chakrabarti 33-4-1-2-5		Y	
UK Chakrabarti 33-4-1-2-5	122998	GR BRIT	1306727.7
UK Chakrabarti 33-4-1-2-5	122998	JAPAN	2001-299082
UK Chakrabarti 33-4-1-2-5	122998	USA	09/677007
UK Chakrabarti 35-2-12-2-11	123549	USA	10/007290
N Chand 13-5-5-1	124099	USA	60/322018
N Chand 13-5-5-1	124099	JAPAN	2002-252938
N Chand 13-5-5-1	124099	USA	10/060688
N Chand 16-7-1-3-1-8-1-1	124322	USA	10/174805
S Chandrasekhar 12-23-21-2-2	121565	USA	09/885638
A Chen 1	121584	CANADA	2338607
A Chen 1	121584	CHINA	1112027.4
A Chen 1	121584	FRANCE	1201179.7
A Chen 1	121584	GERMAN	1201179.7
A Chen 1		Y	
A Chen 1	121584	GR BRIT	1201179.7
A Chen 1	121584	JAPAN	2001-88958
A Chen 1	121584	USA	09/535695
P Chen 1-1-1	124414	USA	10/272821
A Chen 3-2	124213	USA	
AY Cho 103-17-18-2	123476	USA	60/249078
AY Cho 103-17-18-2	123476	USA	09/949096
S Cho 3-22-24-26-6-11-8	122065	USA	09/741358
RA Cirelli 8-15-1	124134	USA	10/217609
BC Collings 1-11-10-7-2	116796	JAPAN	2000-9589
BC Collings 1-11-10-7-2	116796	ITALY	300220.1
BC Collings 1-11-10-7-2	116796	FRANCE	300220.1
BC Collings 1-11-10-7-2	116796	GERMAN	300220.1
BC Collings 1-11-10-7-2		Y	
BC Collings 1-11-10-7-2	116796	GR BRIT	300220.1
BC Collings 1-11-10-7-2	116796	USA	09/293017
DG Coul 16-36-8-9	116937	USA	60/226527
DG Coul 16-36-8-9	116937	USA	09/934098
RA Crook 2	124205	USA	10/170976
RA Crook 3	124403	USA	
JE Cunningham 42-43-2-2	118105	USA	09/515010
JE Cunningham 42-43-2-2	118105	GR BRIT	1301750.4
JE Cunningham 42-43-2-2	118105	AUSTRIA	1301750.4
JE Cunningham 42-43-2-2	118105	FRANCE	1301750.4
JE Cunningham 42-43-2-2	118105	GERMAN	1301750.4
JE Cunningham 42-43-2-2		Y	
JE Cunningham 42-43-2-2	118105	CHINA	1108319
JE Cunningham 42-43-2-2	118105	JAPAN	2001-53928

Y Dai 2-24	123765	USA	10/001355
Y Dai 3	124352	USA	10/268188
MF Dautartas 69-8	109473	JAPAN	2001-226920
MF Dautartas 69-8	109473	USA	09/628063
MF Dautartas 69-8	109473	FRANCE	1305346.7
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MF Dautartas 69-8		Y	
MF Dautartas 69-8	109473	GR BRIT	1305346.7
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✓ MF Dautartas 71-16	121553	FRANCE	1105877.3
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✓ MF Dautartas 71-16		Y	
✓ MF Dautartas 71-16	121553	GR BRIT	1105877.3
✓ MF Dautartas 71-16	121553	CANADA	2340951
✓ MF Dautartas 71-16	121553	USA	09/679325
✓ MF Dautartas 71-16	121553	JAPAN	2001-076289
✓ MF Dautartas 72-17	121554	USA	60/190808
✓ MF Dautartas 72-17	121554	USA	09/650602
MF Dautartas 79-69-20-75	120994	USA	09/781995
MF Dautartas 81-71-78	121548	USA	09/790810
WC Dautremont-Smith 16-19	118988	USA	09/545473
WC Dautremont-Smith 17-20	118988	USA	09/545839
WC Dautremont-Smith 20-22-4	120355		09/767079
2		USA	
AG Dentai 25-1-4-4-2	123597	USA	09/994155
CR Doerr 46-8	122058	USA	09/911623
CR Doerr 47-16-13-9	122060	USA	09/852419
MP Earmshaw 1-4	124461	USA	60/396227
LE Eng 5-18-8-18	118214	USA	09/616537
LE Eng 6-19-9-19	118199	FRANCE	1115077.8
	118199	GERMAN	1115077.8
LE Eng 6-19-9-19		Y	
LE Eng 6-19-9-19	118199	GR BRIT	1115077.8
LE Eng 6-19-9-19	118199	JAPAN	2001-187912
LE Eng 6-19-9-19	118199	CHINA	1122644.7
LE Eng 6-19-9-19	118199	CANADA	2350092
LE Eng 6-19-8-19	118199	USA	09/606795
ZF Fan 1-1-1-3-4-2-35-7-4-4	117939	USA	09/465468
JS Fangman 4	124396	USA	
EJ Flynn 10-3-6-4-1	122844	USA	60/232201
EJ Flynn 10-3-6-4-1	122844	FRANCE	1307817.5
	122844	GERMAN	1307817.5
EJ Flynn 10-3-6-4-1		Y	
EJ Flynn 10-3-6-4-1	122844	GR BRIT	1307817.5
EJ Flynn 10-3-6-4-1	122844	USA	09/951182
EJ Flynn 10-3-6-4-1	122844	JAPAN	2001-319536
JE Ford 47-86-61	120603	USA	09/501199
JS French 1-1-1	117500	FRANCE	305402
	117500	GERMAN	305402
JS French 1-1-1		Y	
JS French 1-1-1	117500	GR BRIT	305402

JS French 1-1-1	117500	JAPAN	2000-206316
JS French 1-1-1	117500	USA	09/349570
JM Freund 72-6-1-4-10	124129	USA	10/226184
JM Freund 72-8-1-4-10	124129	JAPAN	
JM Freund 72-8-1-4-10	124129	FRANCE	
	124129	GERMAN	
JM Freund 72-6-1-4-10		Y	
JM Freund 72-6-1-4-10	124129	GR BRIT	
JM Freund 73-21	124078	USA	10/230942
JM Freund 74-22	124077	JAPAN	
JM Freund 74-22	124077	FRANCE	
	124077	GERMAN	
JM Freund 74-22		Y	
JM Freund 74-22	124077	GR BRIT	
JM Freund 74-22	124077	USA	10/123953
JM Freund 75-23	123762	USA	
JM Freund 77-25	124292	USA	10/253268
JM Freund 79-26-13-7-11	123910	FRANCE	
	123910	GERMAN	
JM Freund 79-26-13-7-11		Y	
JM Freund 79-26-13-7-11	123910	GR BRIT	
JM Freund 79-26-13-7-11	123910	JAPAN	
JM Freund 79-26-13-7-11	123910	USA	10/175665
CJ Frye 1-4	123144	USA	10/050295
CJ Frye 2-7	123757	USA	10/028896
CJ Frye 3-8	123758	USA	09/990815
M Geva 6-2-4-21	121076	USA	60/175000
M Geva 6-2-4-21	121076	PCT	US01/00553
M Geva 6-2-4-21	121076	USA	09/757099
M Geva 6-2-4-21	121076	GR BRIT	
DM Gill 2-7	121430	USA	09/761135
SS Gilmore 1-1-10-1	122495	USA	09/739199
KG Glogovsky 7-10-14-12	123927	USA	10/007289
KW Goossen 76	117443	USA	09/455676
KW Goossen 85-34	120641	USA	09/495304
CJ Griffin 1	124266	USA	10/219416
V Gupta 1-4	124236	USA	10/225849
M Hahn 1-2-22	122854	USA	09/746693
M Hahn 3	123570	USA	10/066926
J He 1-1-1-41-18-1-5	123533	USA	09/932890
FM Houlihan 24-1-17-25	124193	USA	10/157015
L Huang 1-10	122607	USA	09/815142
JM Iannelli 3-17	124468	USA	10/267760
JM Iannelli 3-17	124468	JAPAN	
JM Iannelli 3-17	124468	FRANCE	
	124468	GERMAN	
JM Iannelli 3-17		Y	
CA Jack 5-38	122510	USA	60/267825
CA Jack 5-38	122510	USA	09/927372
BP Jacobsen 1	124166	USA	10/219985
S Jin 214-12-60	123872	USA	10/050656

CD Jones 3-5	123696	USA	09/968124
N Jordache 1-2	124060	USA	10/119257
WB Joyce 22	123166	USA	09/952694
WB Joyce 23	123167	USA	09/998962
WB Joyce 25	123779	USA	09/996220
WB Joyce 26	123764	USA	10/047711
FF Judd 19-3	123935	USA	10/120924
AE Kalish 2	123369	USA	09/818314
✓ KK Kamath 10-2-2	124485	USA	60/432310
KK Kamath 6	123055	USA	09/883034
✓ KK Kamath 6	123055	JAPAN	2002-173514
✓ KK Kamath 7	122842	USA	09/874546
KK Kamath 8-1-1	124265	USA	10/183138
M Kamacewicz 3-39-1	123530	USA	10/279408
BL Kasper 8-3-11	124288	USA	10/195662
LJ Ketelsen 13-18-5	124286	JAPAN	
LJ Ketelsen 13-18-5	124286	USA	
N Kha 1-3	123971	USA	10/187824
WH Knox 42-1-1	118106	JAPAN	2002-046368
WH Knox 42-1-1	118106	USA	09/515812
WH Knox 42-1-1	118106	FRANCE	1301607.6
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WH Knox 42-1-1		Y	
WH Knox 42-1-1	118106	GR BRIT	1301607.6
✓ WH Knox 42-1-1	118106	CHINA	01108314.X
K Kojima 9-4	124416	USA	10/214532
BA Kurchuk 3	122498	USA	09/771279
BA Kurchuk 3	122498	FRANCE	
	122498	GERMAN	
BA Kurchuk 3		Y	
BA Kurchuk 3	122498	GR BRIT	
BA Kurchuk 3	122498	JAPAN	
CW Lentz 12-2-16-6-79	123766	USA	10/120923
G Li 1-8	124130	USA	10/244186
✓ JA Liddle 16-10-3	124155	USA	10/211310
JH Lim 1	122847	USA	09/871912
JG Liu 4	121508	USA	09/741417
XS Luo 1	122857	USA	09/904091
XS Luo 2	122857	USA	10/162480
R Madabhushi 1-1	123936	USA	10/101767
R Madabhushi 1-1	123936	JAPAN	
D Mahgeresteh 1-2	123145	USA	10/060004
H Man 2-4-5-1-5-4-5	121912	USA	09/794936
D Marcuse 30-78	113980	JAPAN	228977/1999
D Marcuse 30-78	113980	USA	09/134121
D Marcuse 30-78	113980	FRANCE	99306129
	113980	GERMAN	99306129
D Marcuse 30-78		Y	
D Marcuse 30-78	113980	GR BRIT	99306129
PJ Masalkar 1	124402	JAPAN	
PJ Masalkar 1	124402	USA	

MM Meyers 1-8	120969	CHINA	1104678.3
MM Meyers 1-8	120969	JAPAN	2001-46288
MM Meyers 1-8	120969	USA	09/510038
MM Meyers 1-8	120969	FRANCE	1301566.4
	120969	GERMAN	1301566.4
MM Meyers 1-8		Y	
MM Meyers 1-8	120969	GR BRIT	1301566.4
MM Meyers 1-8	120969	CANADA	2934304
MM Meyers 7-1	123756	USA	10/087253
TJ Miller 3-1	120394	USA	09/950495
TJ Miller 5-36	118108	USA	10/214063
O Mizuhara 8-7	120727	USA	09/498376
O Mizuhara 8-7	120727	JAPAN	2001-26225
O Mizuhara 8-7	120727	FRANCE	1300510.3
O Mizuhara 8-7	120727	GERMAN	1300510.3
O Mizuhara 8-7		Y	
O Mizuhara 8-7	120727	GR BRIT	1300510.3
Y Nakabayashi 1	124241	FRANCE	
	124241	GERMAN	
Y Nakabayashi 1		Y	
Y Nakabayashi 1	124241	GR BRIT	
Y Nakabayashi 1	124241	PCT	
Y Nakabayashi 1	124241	JAPAN	
Y Nakabayashi 1	124241	USA	
Y Nakabayashi 2-3	124240	JAPAN	
Y Nakabayashi 2-3	124240	FRANCE	
Y Nakabayashi 2-3	124240	GERMAN	
Y Nakabayashi 2-3		Y	
Y Nakabayashi 2-3	124240	GR BRIT	
Y Nakabayashi 2-3	124240	PCT	PCT/US02/25215
Y Nakabayashi 2-3	124240	USA	
JE Nering 1	124417	USA	
C Nuzman 1-6-4	123045	USA	10/137292
BM Onat 3	119011	USA	09/707124
BM Onat 3	119011	JAPAN	2001-332569
BM Onat 3	119011	FRANCE	1308795.2
BM Onat 3	119011	GERMAN	1308795.2
BM Onat 3		Y	
BM Onat 3	119011	GR BRIT	1308795.2
A Ougazzaden 17-4-1	124271	USA	10/255354
P Parayenthal 3	116464	USA	09/545765
M Park 1-30	121544	USA	09/909358
M Park 2	121529	USA	09/909409
EM Peral 1-12	122593	USA	09/738404
GJ Przybylek 80-15	124325	USA	
JP Reynolds 2	124423	USA	
JP Reynolds 2	124423	FRANCE	
JP Reynolds 2	124423	GERMAN	
JP Reynolds 2		Y	
JP Reynolds 2	124423	GR BRIT	
JP Reynolds 2	124423	JAPAN	

SJ Salko 6-1	123823	USA	10/045197
Y Shi 1	122848	JAPAN	
Y Shi 1	122848	USA	09/953615
Y Shi 2	122849	USA	60/323401
Y Shi 2	122849	USA	10/246103
Y Shi 4-8	124000	USA	
S Shimotsu 2	124001	USA	10/152510
J Shmulovich 44	119909	CANADA	2352919
J Shmulovich 44	119909	USA	09/863013
J Shmulovich 44	119909	JAPAN	2001-279018
J Shmulovich 44	119909	FRANCE	1307867
J Shmulovich 44	119909	GERMAN	1307867
J Shmulovich 44		Y	
J Shmulovich 44	119909	GR BRIT	1307867
AK Srivastava 14-21-13-1-4-28	115647	USA	60/089967
AK Srivastava 14-21-13-1-4-28	115647	CHINA	99800964.4
AK Srivastava 14-21-13-1-4-28	115647	USA	09/485877
AK Srivastava 14-21-13-1-4-28	115647	GR BRIT	99930403.3
AK Srivastava 14-21-13-1-4-28	115647	JAPAN	2000-555339
AK Srivastava 14-21-13-1-4-28	115647	PCT	PCT/US99/13812
ST Stanton 7	123871	USA	10/092304
ST Stanton 8	123902	USA	10/207813
JW Stayt 40	118656	FRANCE	309093.3
JW Stayt 40	118656	GERMAN	309093.3
JW Stayt 40		Y	
JW Stayt 40	118656	GR BRIT	309093.3
JW Stayt 40	118656	JAPAN	2000-330494
JW Stayt 40	118656	USA	09/428648
JW Stayt 52-9	119701	USA	09/755406
JW Stayt 53	123879	USA	10/017078
JW Stayt 54	124316	USA	
JW Stayt 55	124318	USA	
PD Yoder 3	123956	FRANCE	
PD Yoder 3	123956	GERMAN	
PD Yoder 3		Y	
PD Yoder 3	123956	GR BRIT	
PD Yoder 3	123956	JAPAN	
PD Yoder 3	123956	USA	